

CANCER RISK FROM FOOD

Table 1. Possible cancer risk resulting from consumption of common foods

Food	Carcinogen	Estimated Consumption	kg/day	Average Chemical Conc (mg/kg)	CPF (mg/kg-day) ⁻¹	Abs	Chem-Specific Risk	Cancer Risk from Food Consumption		
Smoked Ham	Benzo(a)pyrene	125 g/week	0.018	0.003	7.3	1	5.63E-06	6.19E-06		
	Benz(a)anthracene			0.003	0.73	1	5.63E-07			
Cooked Sausage	Benzo(a)pyrene	125 g/week	0.018	0.015	7.3	1	2.82E-05	3.19E-05		
	Benz(a)anthracene			0.02	0.73	1	3.75E-06			
Barbecued Beef	Benzo(a)pyrene	125 g/week	0.018	0.003	7.3	1	5.63E-06	8.07E-06		
	Benz(a)anthracene			0.013	0.73	1	2.44E-06			
Barbequed Ribs	Benzo(a)pyrene	125 g/week	0.018	0.011	7.3	1	2.06E-05	2.14E-05		
	Benz(a)anthracene			0.004	0.73	1	7.51E-07			
Charcoal Broiled Steak	Benzo(a)pyrene	125 g/week	0.018	0.008	7.3	1	1.50E-05	1.60E-05		
	Benz(a)anthracene			0.005	0.73	1	9.39E-07			
Fried Bacon	Nitrosodimethylamine	3 slices/wk	0.008	0.015	51	1	8.74E-05	1.28E-04		
	Nitrosodiethylamine			0.002	150	1	3.43E-05			
	Nitrosopyrrolidine			0.025	2.1	1	6.00E-06			
Fresh Fish	Nitrosodimethylamine	140 g/week	0.02	0.01	51	1	1.46E-04	2.31E-04		
	Nitrosodiethylamine			0.002	150	1	8.57E-05			
Cheese	Nitrosodimethylamine	50 g/week	0.007	0.03	51	1	1.53E-04	2.19E-02		
	Aflatoxin-FDA tolerance			20 g/week	0.0004	0.05	5E-05		1	1.37E-11
	Aflatoxin-Low quality					0.01	5E-05		1	2.74E-12
Peanut Butter	Aflatoxin-High quality	20 g/week	0.0004	0.001	5E-05	1	2.74E-13	1.67E-11		
	Benzo(a)pyrene			1 cup/day	0.125	0.001	7.3		1	1.30E-05
	Benz(a)anthracene					0.003	0.73		1	3.91E-06
Coffee	Benzo(a)pyrene	1 cup/day	0.125	0.004	7.3	1	5.21E-05	5.74E-05		
	Benz(a)anthracene			0.004	0.73	1	5.21E-06			
Beer (Pale Lager)	Nitrosodimethylamine	0.5 can/day	0.125	4E-04	51	1	3.64E-05	2.91E-04		

Note: Aflatoxin Cancer Potency Factor (CPF) is an estimate.